

#### ABSTRACT OF THE DISCLOSURE

A method for fabricating a capacitor comprises the steps of: forming a lower electrode of a metal over a substrate; forming a capacitor dielectric film of an oxide dielectric film on the lower electrode; depositing a metal film on the capacitor dielectric film; performing a thermal processing in a hydrogen-content atmosphere after the step of depositing the metal film; and patterning the metal film to form an upper electrode of the metal film after the step of performing the thermal processing. Thus, the adhesion between the upper electrode and the capacitor dielectric film is improved, and capacitor characteristics can be improved.